

Some Contributors (whether they know it or not)

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Introduction

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Purpose

 To provide the basis for integrating data from different data models potentially with different purposes and using different modelling languages.

• Forms of the Language

- Lexical
- XML
- Graphical (this form)
- Meta-model
- Interface Specification

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Key Capabilities

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- Able to support a model with different levels of abstraction
- Able to integrate models from different modelling languages
- Able to map between different models
- Able to make negative statements
- Able to be extended
- Sound basis on fundamental axioms only, i.e. logic and set theory
- Multiple equivalent forms

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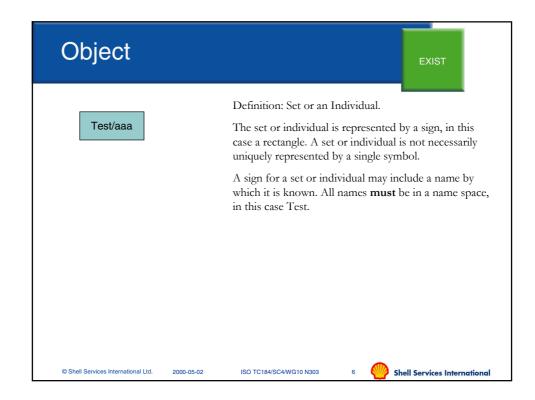
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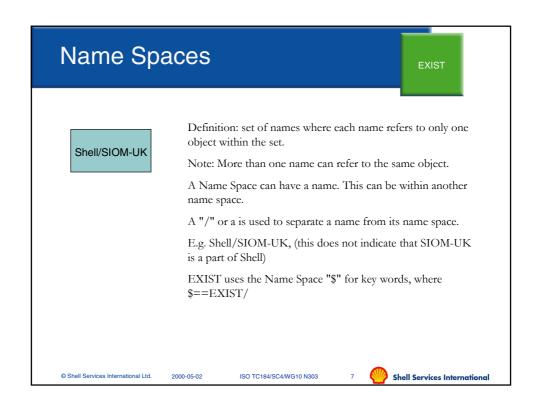
Language Elements

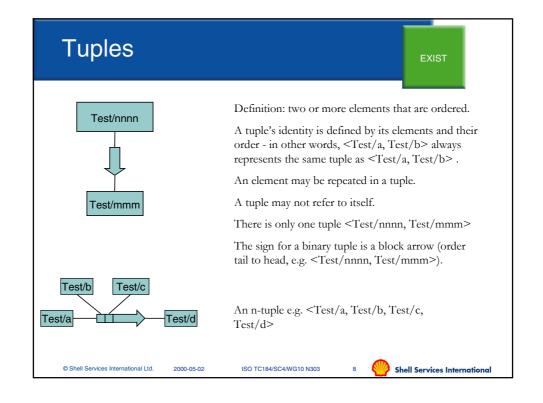
- Base Elements
 - Named Objects
 - Names, namespaces, variables
 - Structures
 - · Sets, tuples
- Set Membership
- Relations
 - General relations, functions and operations
- **Operators**



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Notes on the Tuples

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- Tuples are NOT pointers.
- A tuple is NOT equivalent to a relationship in an entity relationship model.
- For 2 Things Test/A, Test/B there are exactly 4 tuples: <Test/A, Test/A>, <Test/A, Test/B>,
 <Test/B, Test/A>, <Test/B, Test/B>
- A tuple has no meaning on its own. It is given meaning by the sets that it is a member of.

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